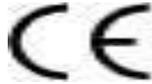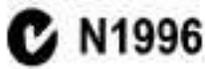# CYBERNET iOne-G4 Series
User Guide

FCC-B Radio Frequency Interference Statement

This equipment has been tested and found to comply with the limits for a class B digital device, pursuant to part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the measures listed below.

- Reorient or relocate the receiving antenna.
- Increase the distance between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/television technician for help.

Notice 1   The changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Notice 2   Shielded interface cables and A.C. power cord, if any, must be used in order to comply with the emission limits.

Trademarks

All trademarks are the properties of their respective owners.
Intel® and Pentium® are registered trademarks of Intel Corporation.
PS/2 and OS®/2 are registered trademarks of International Business Machines Corporation. Windows® 7/Vista/XP/NT/2000/98/95 are registered trademarks of Microsoft Corporation. Netware® is a registered trademark of Novell, Inc. Award® is a registered trademark of Phoenix Technologies Ltd. AMI® is a registered trademark of American Megatrends Inc.

Safety Instructions

1. Always read the safety instructions carefully.
2. Keep this equipment away from humidity.
3. Lay this equipment on a reliable flat surface before setting it up.
4. The openings on the enclosure are for air convection and hence protect the equipment from overheating. DO NOT COVER THE OPENINGS.
5. Confirm the voltage of the power source and adjust accordingly to 110/220V before connecting the equipment to the power inlet.
6. Place the power cord in such a way that it cannot be stepped on. Do not place anything over the power cord.
7. Always unplug the power cord before inserting any add-on card or module.
8. All cautions and warnings on the equipment should be noted.
9. Never pour any liquid into the opening. This will cause damage and/or electrical shock.
10. Do not disable the protective grounding pin from the plug. The equipment must be connected to a grounded main socket/outlet.
11. The Optical Storage devices are classified as Class 1 Laser products. Use of controls or adjustments or performance of procedures other than those specified is prohibited.
12. Do not touch the Laser lens inside the optical storage drive.
13. If any of the following situations arise, have the equipment checked by authorized service personnel:
    - The power cord or plug is damaged.
    - Liquid has penetrated into the equipment.
    - The equipment has been exposed to moisture.
    - The equipment has not worked well or you cannot get it working according to the User's Guide.
    - The equipment has been dropped and damaged.
    - The equipment has obvious signs of breakage.

DO NOT LEAVE THIS EQUIPMENT IN AN UNCONDITIONED ENVIRONMENT WITH A STORAGE TEMPERATURE ABOVE 50° C (122°F). IT MAY DAMAGE THE EQUIPMENT.

CAUTION: There is danger of explosion if the battery is incorrectly replaced. Replace only with the same or equivalent type recommended by the manufacturer.

WEEE Statement

(Waste Electrical and Electronic Equipment)

The WEEE directive places an obligation on EU-based manufacturers, distributors, retailers and importers to take-back electronics products at the end of their useful life. A sister directive, ROHS (Restriction of Hazardous Substances) complements the WEEE Directive by banning the presence of specific hazardous substances in the products at the design phase. The WEEE Directive covers products imported into the EU as of August 13, 2005. EU-based manufacturers, distributors, retailers and importers are obliged to finance the costs of recovery from municipal collection points, reuse, and recycling of specified percentages per the WEEE requirements.

Instructions for disposal of WEEE by Users in the European Union

The symbol shown below is on the product or on its packaging, which indicates that this product must not be disposed of with other waste. Instead, it is the user's responsibility to dispose of their waste equipment by handing it over to a designated collection point for the recycling of waste electrical and electronic equipment. The separate collection and recycling of your waste equipment at the time of disposal will help to conserve natural resources and ensure that it is recycled in a manner that protects human health and the environment. For more information about where you can drop off your waste equipment for recycling, please contact your local city office, your household waste disposal service or where you purchased the product.

TABLE OF CONTENTS

Figures

Introduction

Congratulations for purchasing the iOne-G4. The iOne-G4 Series is your best slim LCD PC choice. With the all-in-one design and small form factor, it can easily be set anywhere. The feature packed platform also gives you an exciting PC experience.

iOne-G4 Series Specifications

CPU Support

Intel® Core™ 2 Duo and Core™ 2 Quad @ 1333MHz FSB in LGA775 package, to 95W.

Motherboard Core Logic

Eaglelake: Intel® G45 chipset
Intel® ICH10 chipset

Memory Support

DDR3 800/1066/1333 MHz SO-DIMM SDRAM (Un-buffered Non-ECC)
2 DDR3 1333 MHz SO-DIMM slots (8GB Max)

HDD Support

Two SATA2 ports
Integrated Serial ATA controller for high-speed transfers up to 3Gbps

LCD Display

18.5" TFT 16:9 widescreen (1400x787) LCD panel
Screen size: 16.2" (W) x 9.2" (H)

Video & Graphics Support

Intel® G45 Express Chipset, with Intel® GMA X4500HD Graphics Media Accelerator
Intel® Clear Video Technology for enhanced visual experience
Built-in support for full 1080p high-definition video playback, including Blu-ray
3D graphics performance
Supports Microsoft DirectX 10, Shader Model 4.0 and OpenGL 2.0
DVMT allocated as needed from 128MB to 1759MB
Maximum display resolution 1400 x 787

Networking

1 Gigabit (GbE) Fast Ethernet, using Realtek RTL 8111DL

Audio

2 internal speakers with 3 audio jacks (audio out, line-in, and microphone)
HD Audio Codec Realtek® AL889 enables Dolby® Digital 5.1 surround sound
Flexible 10-channel audio with jack sensing
Compliant with Azalia 1.0 Spec

Hard Disk Drive

One 2.5" SATA Hard Disk Drive - Any Capacity
Supports Ultra DMA 66/100 mode

Optical Drive

One slim type Optical Drive, DVD+/-RW or Blu-ray

Wall Mounting

Supports both 75mm and 100mm VESA mounting holes

Swivel Stand

System base rotates 60 degrees

Expansion Slots

2 mini PCIe
1 mini PCI

Power Supply

180 Watt AC Adapter
Input: universal 100~240V AC, 50-60Hz
Output: 19V DC, 9.48A
Dual mode power button for low power sleep mode

Dimensions

490mm/19.3" (W) x 360mm/14.2" (H) x 74mm/2.9" (D)
425mm/16.8" (H) with stand, 266mm/10.5" (D) with stand

Weight

Unit: 23.3 lbs. with base, 15.7 lbs. without base
Power adapter: 1.7 lbs.

Security Lock

Located on the back of the system case

Operating Environment

Ambient Temperature: 0° C. ~ 50° C. (operating)

Relative Humidity

10% ~ 90% (non-condensing)

Operating System Compliance

Microsoft Windows 7, Vista, XP, 2000, Linux

System BIOS

Award Flash BIOS supports ACPI, API, DMI, Plug & Play, and security password
Boots from HDD, PXE, LAN, CD-ROM, and any USB device
Award BIOS System POST and BIOS setup password protection

I/O PORTS BY LOCATION

Front Lower Right Bezel

Onscreen Display Buttons
Volume Adjust
Brightness Adjust
Contrast Adjust
Mute/Exit
Menu/Enter

Right Side Bezel

1 power button
2 USB 2.0 ports (for mouse and keyboard)

Left Side Bezel

1 optical disk drive – 2.5" slim

Bottom I/O Panel

1 DC/IN port
2 Serial ports
1 DVI-I port
1 LAN RJ-45 jack
4 USB 2.0 ports
3 Audio jacks – Line in, Line Out and Mic
4 TV Tuner ports - - Optional with TV Tuner (COAX Cable In, RCA Composite Video In,
Audio Left & Audio Right)
1 CMOS clear button
1 Reset button

iOne-G4 Series Overview

Figure 1: Front View

Figure 2: Left side view with Optical Drive

Figure 3: Power Switch and USB Ports

Power Switch

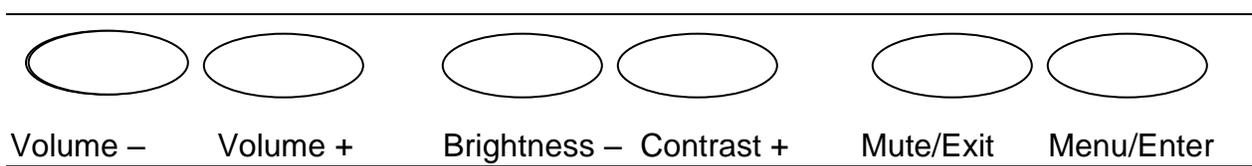Side USB

Figure 4: Touch Panel

Figure 5: IrDA Receiver for TV Tuner

Onscreen Display Buttons

There are six buttons on the lower right bezel of the screen. From left to right they are:

Volume –	Volume +	Brightness –	Contrast +	Mute/Exit	Menu/Enter

Volume -   Press to decrease volume.

Volume +   Press to increase volume.

Brightness-   Press first to select Brightness adjustment. Press again to decrease brightness. Press Contrast + to increase brightness. Brightness can also be adjusted in Menu Mode.

Contrast +   Press first to select Contrast adjustment. Press again to increase contrast. Press Brightness – to decrease contrast. Contrast can also be adjusted in Menu Mode.

Mute/Exit   Press once to toggle Mute On or Off.
              Also functions as Exit button in the Menu Mode.

Menu/Enter   Press once to get to Onscreen display Mode to allow various adjustments as listed below.
              Also functions as the Enter or Select button in Menu Mode.

Onscreen Display Usage

When the Menu button is pressed, the onscreen display appears as pictured above. When in Menu Mode you can move to the various icons with the – (left) or + (right) button. When you are at the icon you wish to adjust, press Menu again (Enter) to change the color of the icon and then toggle your desired adjustment by again pressing either – (left) or + (right). The screen will exit automatically in a matter of seconds if no selection is made.

Onscreen Display Icons

The Icons are as follows:

<div align="center">At the Top:</div>

Contrast	Select to toggle greater or lesser contrast.
Brightness	Select to toggle greater or lesser brightness.

<div align="center">On the Right:</div>

Globe	Select to toggle through the languages offered.
C2	Select to adjust the appearance of the screen to "Cool".
C1	Select to adjust the appearance of the screen to "Warm".

<div align="center">On the Left:</div>

R	Select to adjust "Red"
G	Select to adjust "Green"
B	Select to adjust "Blue"

<div align="center">At the Bottom:</div>

INF	OSD Firmware EEPROM version information.
Exit	Select to Exit the On Screen Display (Will exit automatically if untouched).
R→	Select to Reset all LCD Display settings.

Figure 7: Back view

Figure 8: Bottom Panel I/O Ports

DC-in   Serial ports   DVI-I   LAN   USBx4   TV Tuner   Composite video in

Audio I/O   Clear CMOS & Reset   L/R Audio in

Figure 9: CPU Heat Sink Ventilation Fan

CPU FAN

Figure 10: System Ventilation Fan, System Ventilation and Stand
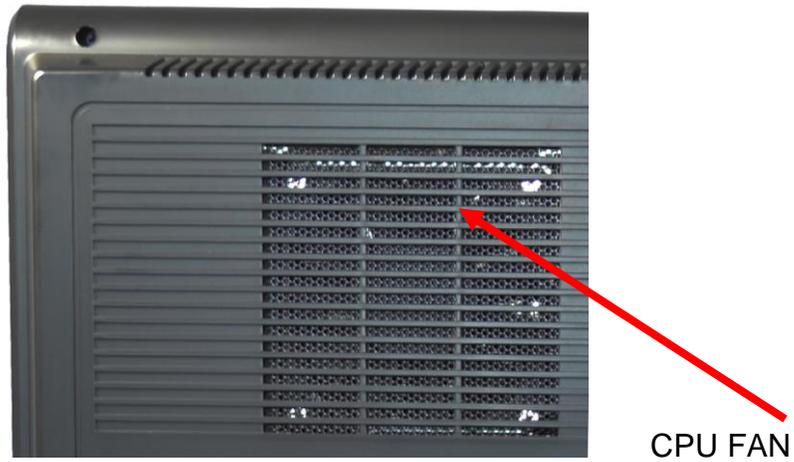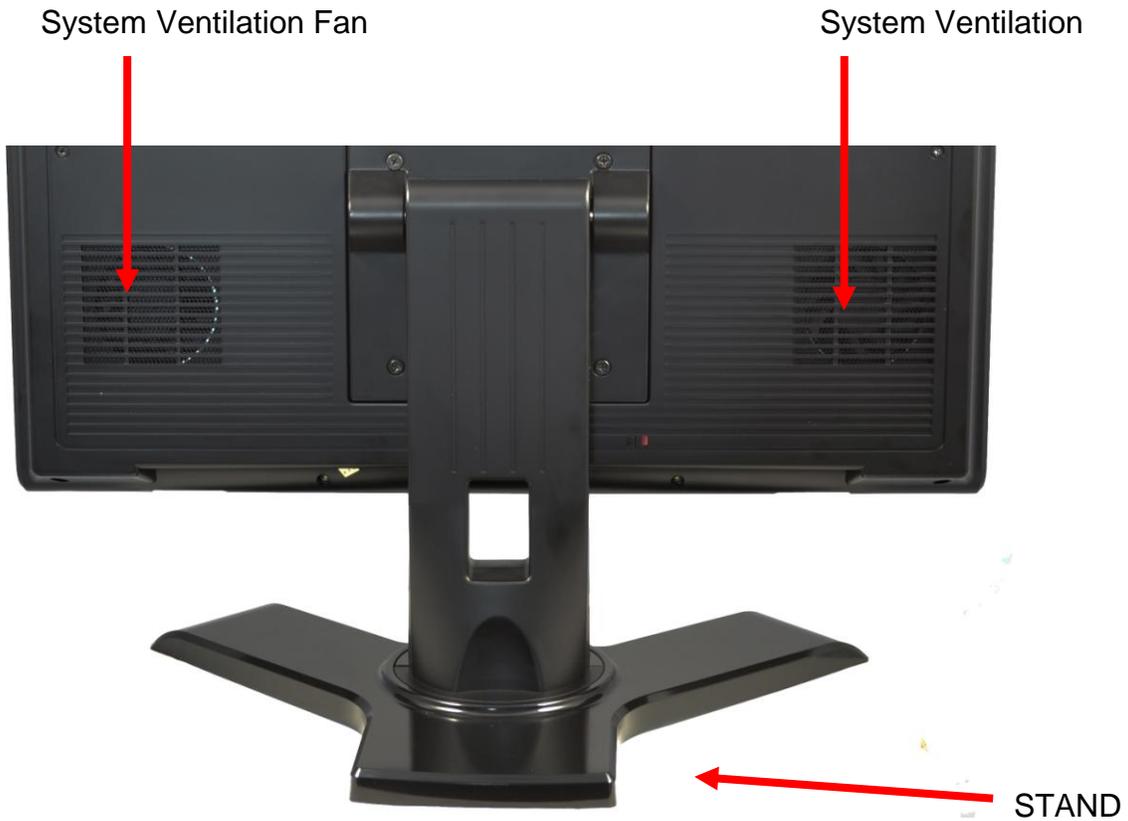
System Ventilation Fan   System Ventilation

STAND

System Assembly

This chapter provides system assembly information and procedures. While performing any installation, use a grounded wrist strap before handling computer components and carefully follow all installation procedures. Static electricity may damage the components.

This chapter will include instructions for how to install the CPU, heat sink, memory modules, hard disk drive (HDD), optical disk drive (ODD), mini PCI card, mini PCIE card and IrDA module.

Necessary Tools

A Phillips screwdriver can be used to do most of the installation. One with a magnetic head is recommended. Applied maximum torque is 5kg.

Pliers can be used as an auxiliary tool to connect some connectors or cables.

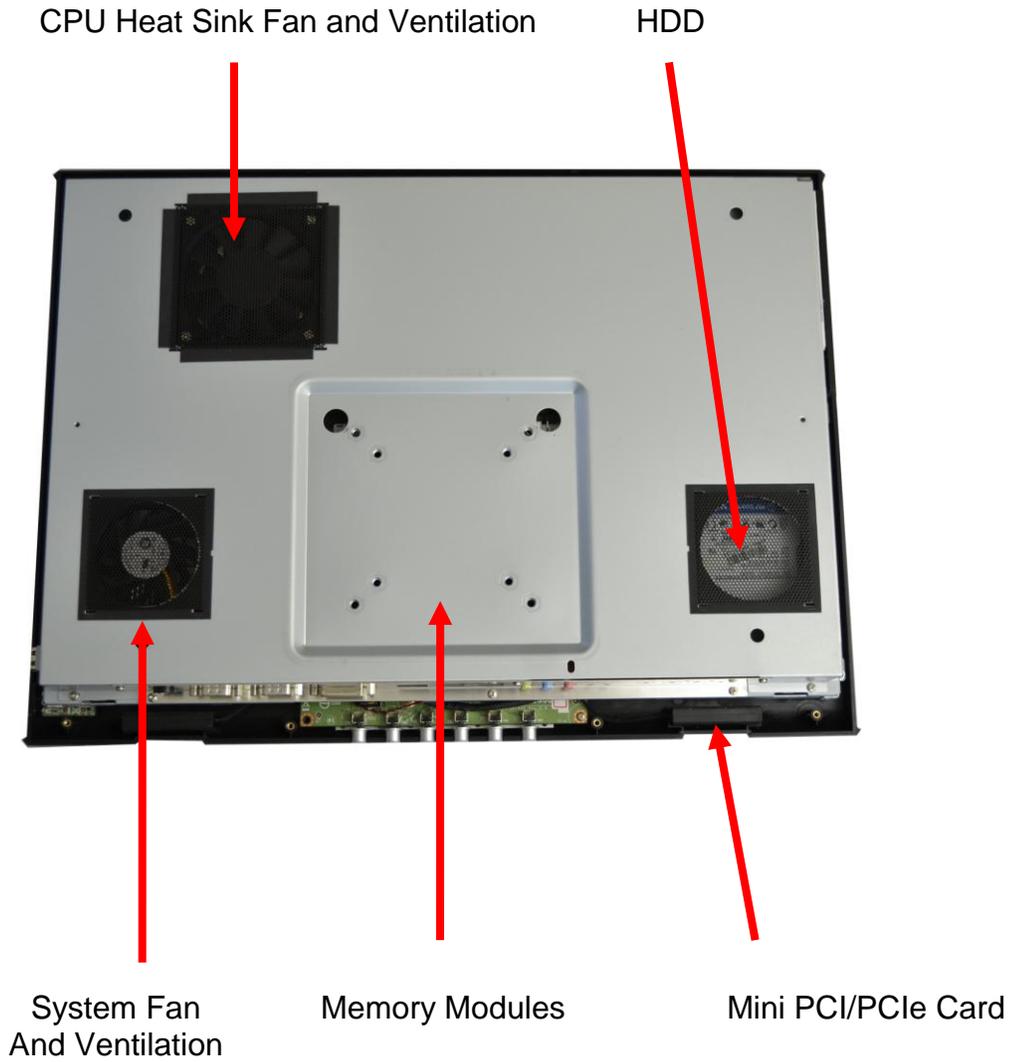Forceps/tweezers can be used to pick up tiny screws or set up the jumpers.

Rubber gloves can prevent injury from static charge.

An electric screwdriver can be used to secure all screws more quickly.

Orientation of Key Parts

CPU Heat Sink Fan and Ventilation   HDD

System Fan   Memory Modules   Mini PCI/PCIe Card
And Ventilation

iOne-G4 Disassembly

ORIENTATION: Presumes the top of the iOne is away from you and the bottom or I/O controller board is nearest you.

1. Place the iOne face down on a padded surface.

2. Remove the four screws from the base plate that attaches the stand to the LCD. Support the base when removing the last screw.

3. Remove the eight back bezel screws.

4. Carefully remove the back bezel and set aside.

5. Then remove the metal EMI shield by first removing the I/O cover: remove the three screws on the bottom and two screws on the face. Lift the plate out and up and set aside.

6. Remove the remaining eleven screws around the metal shield covering the motherboard.

7. First lift the metal shield and slide it to the right, clearing the optical drive door (at the top right). Then disconnect the system fan cable connector from the motherboard at FAN2 next to the top right corner of the CPU.

Figure 12: Open System

Installing the CPU

NOTE: If you purchased your iOne-G4 as a turnkey system, you must first follow the instructions to remove the heat sink in order to be able to reach the CPU. Systems purchased as 'bare bones' require the installation of the heat sink which is shipped in the accessories box with the unit.

1. The socket has a plastic cap on it to protect the pins from damage. This should remain in place until actually installing a CPU.

2. Raise the plastic cap to reveal the socket pins and open the cover by pushing down, pulling out and up on the lever beside the CPU socket.

   **Note:** To avoid damage, do not touch the socket pins.

3. Install the CPU after confirming the direction for correct mating. Be sure to hold the CPU by the edge of the CPU base.

   Note: The CPU can only be installed in the correct direction. Make sure the CPU pins are completely embedded into the socket. If not, take out the CPU with vertical motion and reinstall.

4. Close the cover and the lever to complete installation. Replace the heat sink.

NOTE: Any violation of the correct installation procedures may cause permanent damage to your motherboard.

Installing the CPU Heat Sink
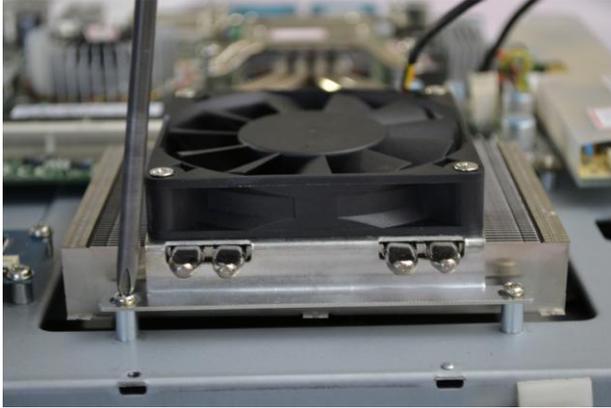
1. Put on the heat sink and make sure that the four screws fit the corresponding screw holes on the motherboard.

2. Alternate pressure while securing the four screws with balance.
   Note: Do not fix any screws until the four screws are in their positions.

3. Secure the two screws at the opposite end near the top edge of the bezel.
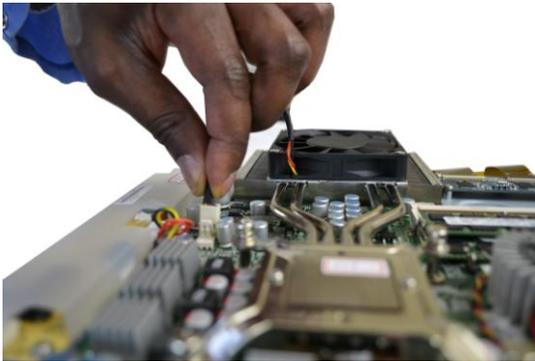
4. Connect the power cable to CPU Fan on the motherboard labeled FAN 1 CPU FAN.

Installing the Memory Module DDR3 SO-DIMM

1. The memory module has only one notch and will only fit in the slot one way.

2. Insert the memory module into the DIMM slot at a 45° angle. Then push it in until the golden finger on the memory module is deeply inserted into the DIMM slot.

3. Press the memory module down and the metal clip at each side of the DIMM slot will automatically close.

4. Repeat the steps to install another memory module to meet your needs.

Installing the Hard Disk Drive

1. Mount the brackets to both sides of the hard disk drive with four screws

2. Slide the hard disk drive into the frame and line up the two screw holes accordingly. Secure the two screws on the Hard Disk Drive. Connect the SATA cable to the motherboard.

3. Connect the other end of the SATA/Power cable to the Hard Disk Drive as shown.

Installing the Optical Disk Drive

1. Remove back bezel as indicated in the iOne disassembly section. Remove the Optical Disk Drive frame.
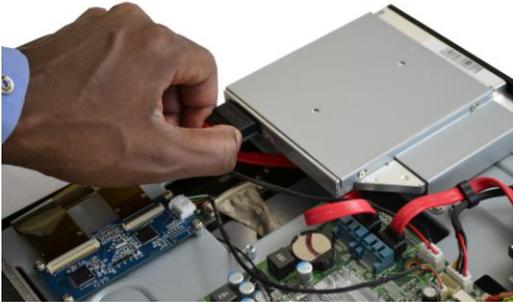
2. Put the ODD on the ODD frame and line up the four screw holes accordingly.

3. Secure the four screws on the ODD frame.

4. Connect the SATA cable. Connect the Power Cable.

5. Connect the other end of the cable to the ODD.

6. Install the ODD frame and line up the two screw holes over the Metal support.

7. Secure the two screws to fix the ODD frame and complete the installation.

Installing the Mini PCI Card (Optional)

1. The mini PCI card has only one notch and will only fit in one way. Insert the mini PCI card into the mini PCI slot at a 45° angle. Then push it in until the golden finger on the mini PCI card is deeply inserted in the mini PCI slot.

2. Press down the mini PCI card and the metal clip at each side of the mini PCI slot will automatically close.

Installing the Mini PCIe Card (Optional)

1. The mini PCIE card has only one notch and will only fit in one way. Insert the mini PCIe card into the mini PCIe slot at a 45° angle. Then push it in until the golden finger on the mini PCIe card is deeply inserted into the mini PCIe slot.

2. Press down the mini PCIe card and secure the screw to complete the installation.

Installing the Cover

1. Connect the power cable to the System Fan on the motherboard before securing the metal cover with 17 screws.

2. Secure the plastic cover with 11 screws.

3. Secure the stand with 4 screws.

Cybernet e-recycling SOP

Cybernet has an e-recycling program that is very easy to use. Just follow the steps explained below or go to our website at www.cybernetman.com.

1. Request an RMA via phone, email or support request.
2. We will arrange a call tag to have the product picked up. Just have it packed and ready to ship.

We do the rest!